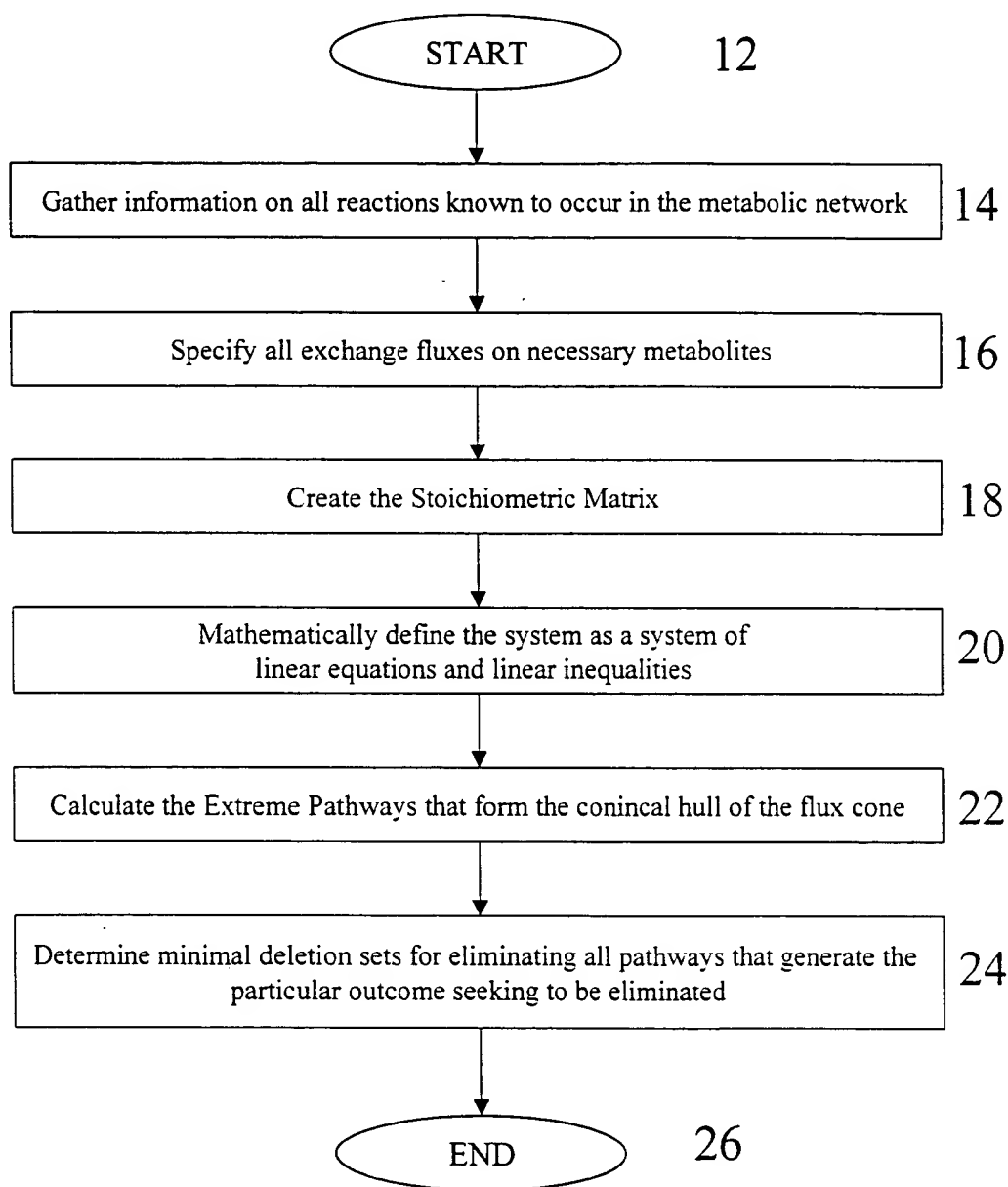
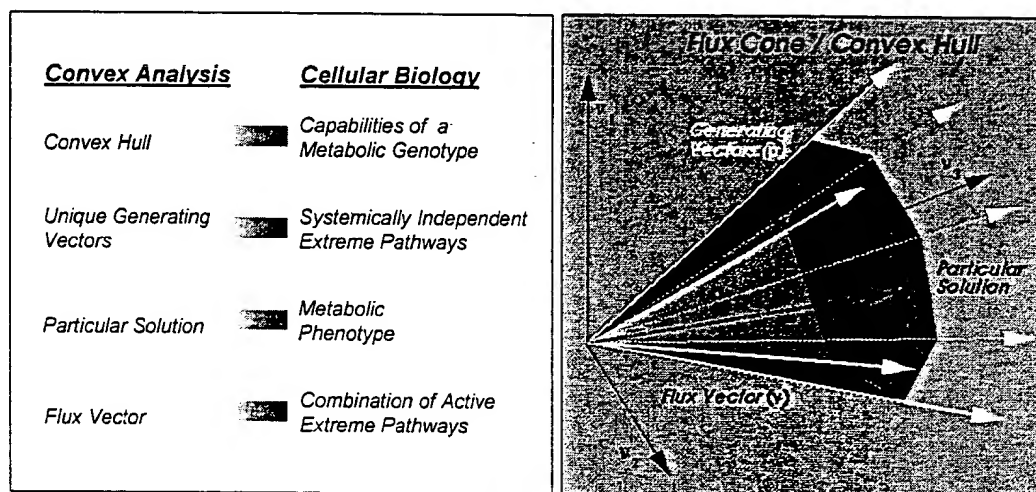


Figure 1



099261-03101  
T0T80" T6T82660

**Figure 2**



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TOTF80" T6T82660



Figure 4

Table 1

Pathway Number	Internal Fluxes								Exchange Fluxes		
	$v_1$	$v_2$	$v_3$	$v_4$	$v_5$	$v_6$	$v_7$	$v_8$	$b_1$	$b_2$	$b_3$
3	0	0	0	0	3	0	2	1	0	-4	1
4	0	0	0	0	1	2	0	1	0	-4	1
5	4	1	3	0	0	0	2	1	-4	0	1
6	4	3	1	0	0	2	0	1	-4	0	1
7	4	4	0	0	3	0	2	1	-4	0	1
8	4	4	0	0	1	2	0	1	-4	0	1
9	0	0	1	1	0	0	0	0	0	0	0
10	0	1	0	1	1	0	0	0	0	0	0

Table 1: The set of extreme pathways ( $p_1, \dots, p_{10}$ ) for the reaction scheme depicted in Figure 2. Pathway 1 and 2 correspond to pathways utilizing both metabolite A and C as substrates, while pathway 3 and 4 utilize only metabolite C. Pathway 5, 6, 7, and 8 utilize metabolite A as the sole substrate. Pathway 9 and 10 show no activity in the exchange fluxes and correspond to internal cycles.

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Figure 5

